

Family list

7 family members for:

WO2004046066

Derived from 7 applications.

- 1 METHOD FOR DEUTERATION OR TRITIATION OF HETEROCYCLIC RING**
Publication info: **AU2003277595 A1** - 2004-06-15
- 2 A METHOD FOR DEUTERATION OF A HETEROCYCLIC RING**
Publication info: **CA2506010 A1** - 2004-06-03
- 3 Method for deuteration or tritiation of heterocyclic ring**
Publication info: **CN1714060 A** - 2005-12-28
- 4 METHOD FOR DEUTERATION OR TRITIATION OF HETEROCYCLIC RING**
Publication info: **EP1561741 A1** - 2005-08-10
- 5 METHOD FOR DEUTERATION OR TRITIATION OF HETEROCYCLIC RING**
Publication info: **RU2005118416 A** - 2006-03-20
- 6 Method for deuteration or tritiation of heterocyclic ring**
Publication info: **US2006025596 A1** - 2006-02-02
- 7 METHOD FOR DEUTERATION OR TRITIATION OF HETEROCYCLIC RING**
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METHOD FOR DEUTERATION OR TRITIATION OF HETEROCYCLIC RING

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Inventor: ITO NOBUHIRO (JP); MAESAWA TSUNEAKI (JP); MUTO KAZUSHIGE (JP); HIROTA KOSAKU (JP); SAJIKI HIRONAO (JP)

Applicant: WAKO PURE CHEM IND LTD (JP); ITO NOBUHIRO (JP); MAESAWA TSUNEAKI (JP); MUTO KAZUSHIGE (JP); HIROTA KOSAKU (JP); SAJIKI HIRONAO (JP)

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- european: C07B59/00D; C07D209/20; C07D213/16C; C07D231/12B1; C07D233/54C; C07D233/54C2B; C07D235/06B; C07D239/54B1; C07D471/04; C07D473/30; C07H19/067; C07H19/167

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CN1714060 (A)
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Cited documents:



US4880941
JP60248666

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Abstract of WO2004046066

A method for deuteration or tritiation of a heterocyclic ring, characterized in that it comprises allowing a heterocyclic compound to be present under a sealing and refluxing condition in a deuterated or tritiated solvent in the presence of an activated catalyst selected from among a palladium catalyst, a platinum catalyst, a rhodium catalyst, a ruthenium catalyst, a nickel catalyst and a cobalt catalyst. The method allows a deuteration or tritiation temperature to be kept at a temperature higher than the boiling temperature of the solvent, which results in the replacement of a hydrogen atom in a heterocyclic ring of heterocyclic compound with very good efficiency. Further, the method can be widely used for the deuteration or tritiation of various types of heterocyclic compounds being decomposed under a supercritical condition or an acidic condition, and thus can be used for efficient deuteration or tritiation of heterocyclic compound in a commercial process.

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